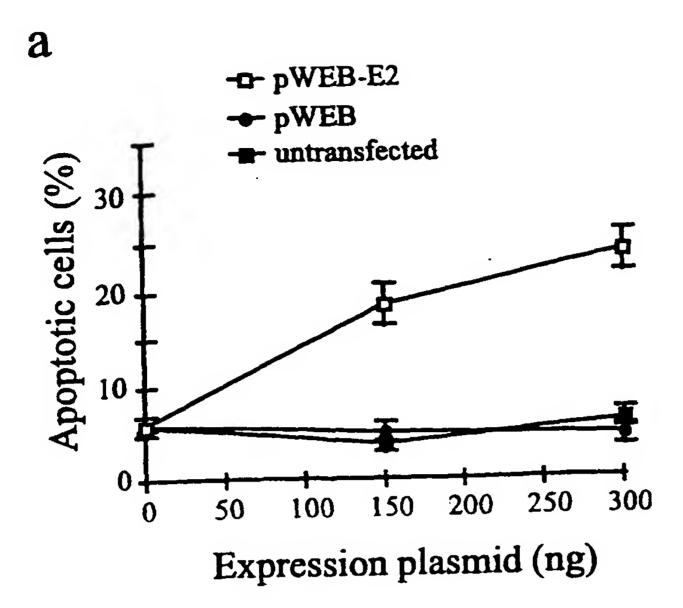


Fig. 2

Fig. 3A



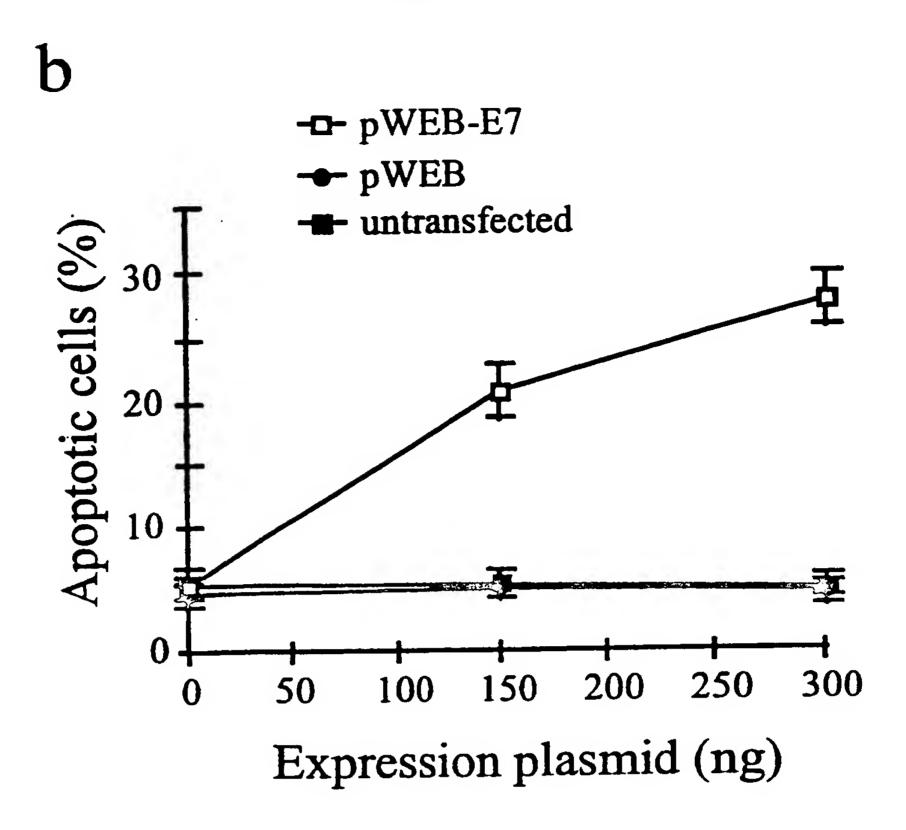


Fig. 3B

a

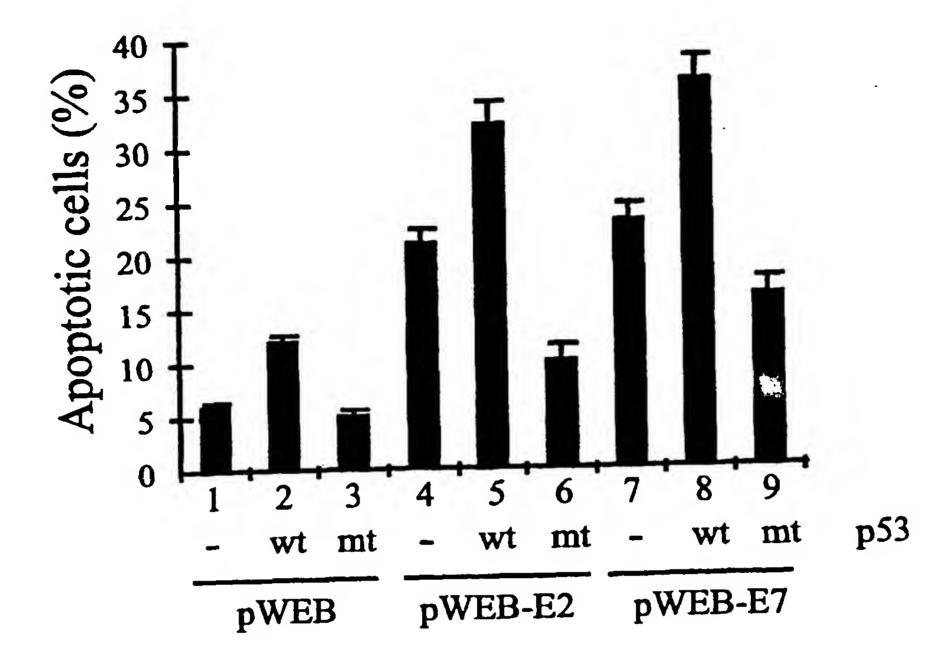
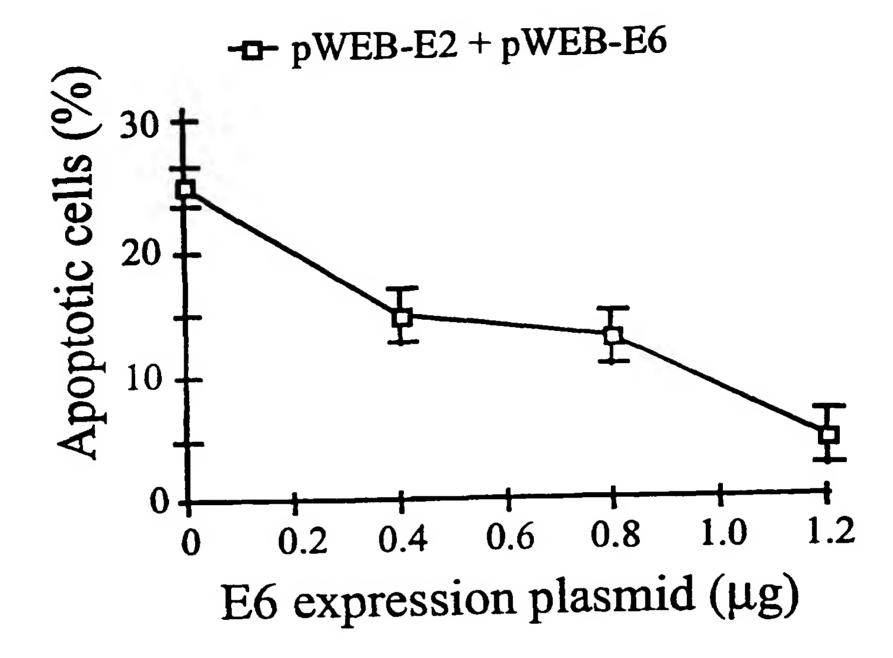


Fig. 4B

b



C

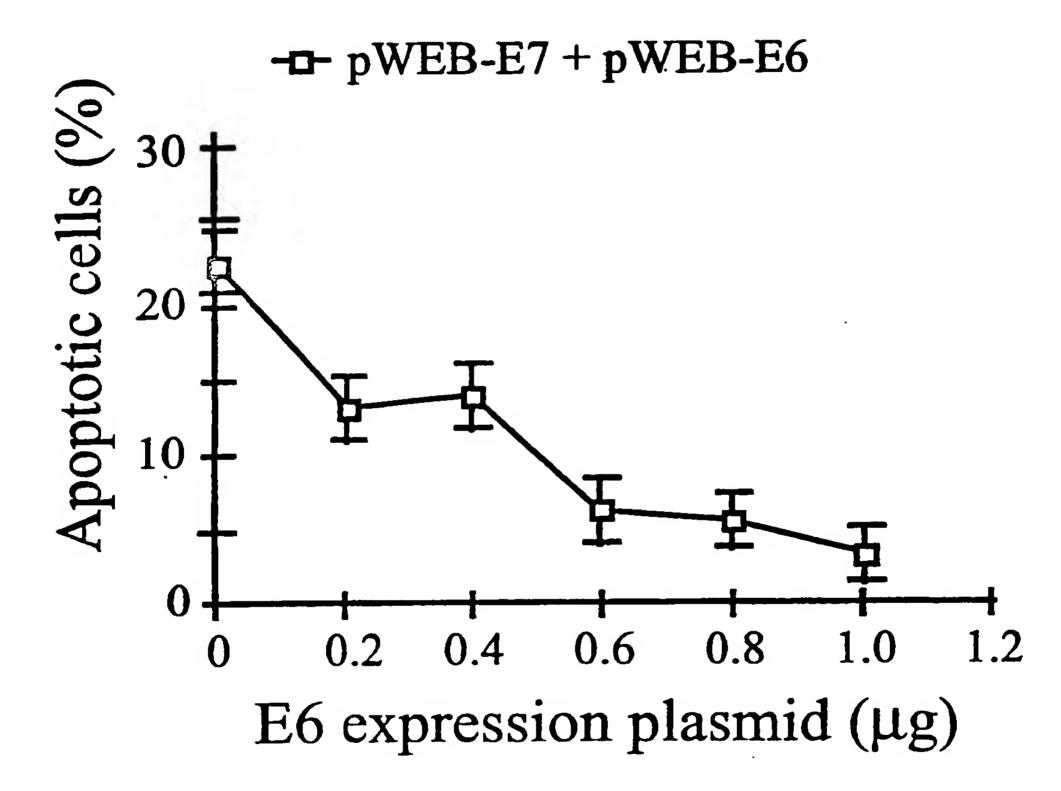


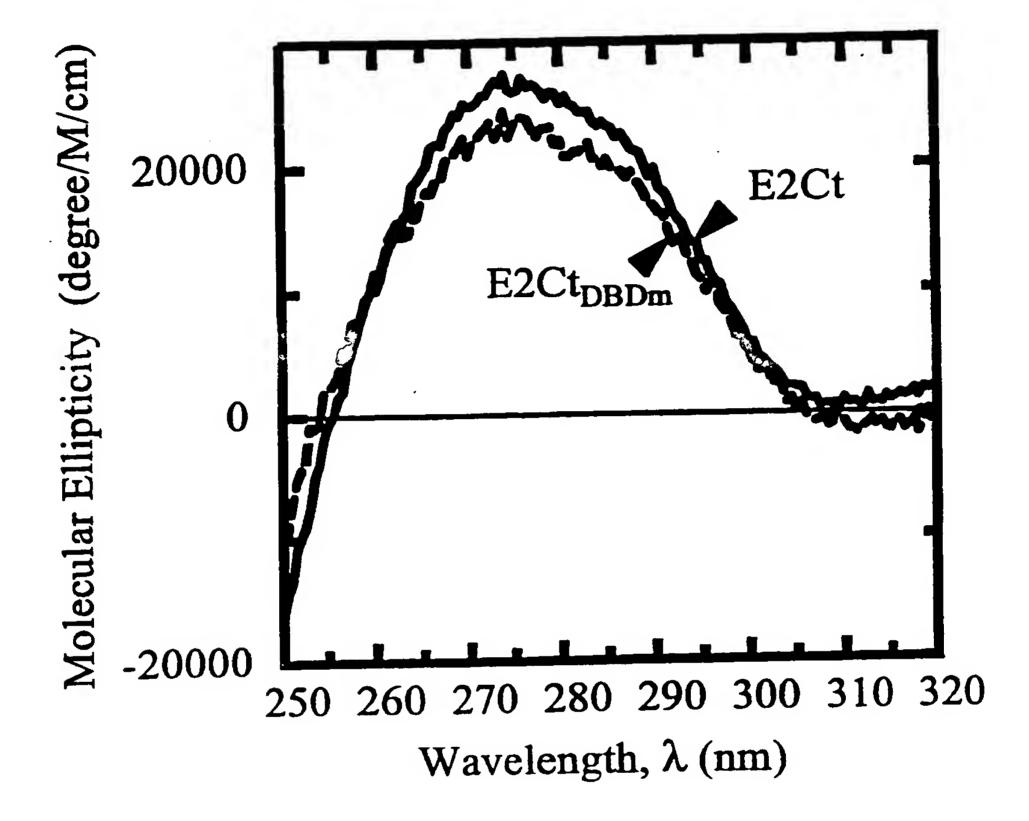
Fig 5A

a



Fig 5B

b



10/23

Fig 5C

C

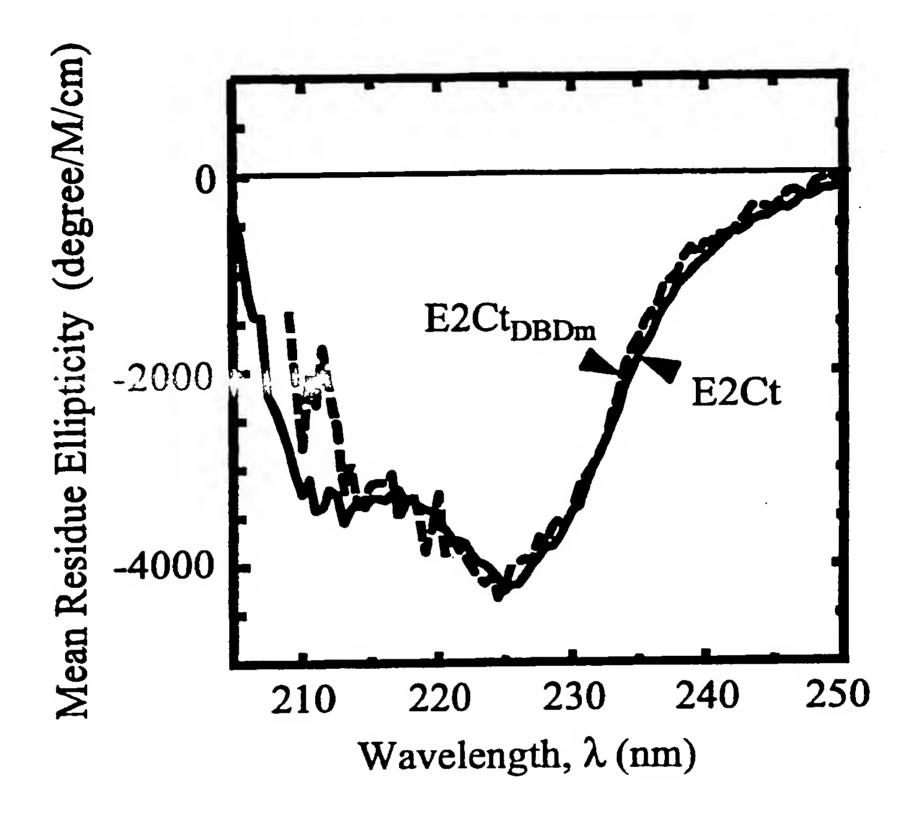


Fig 5D

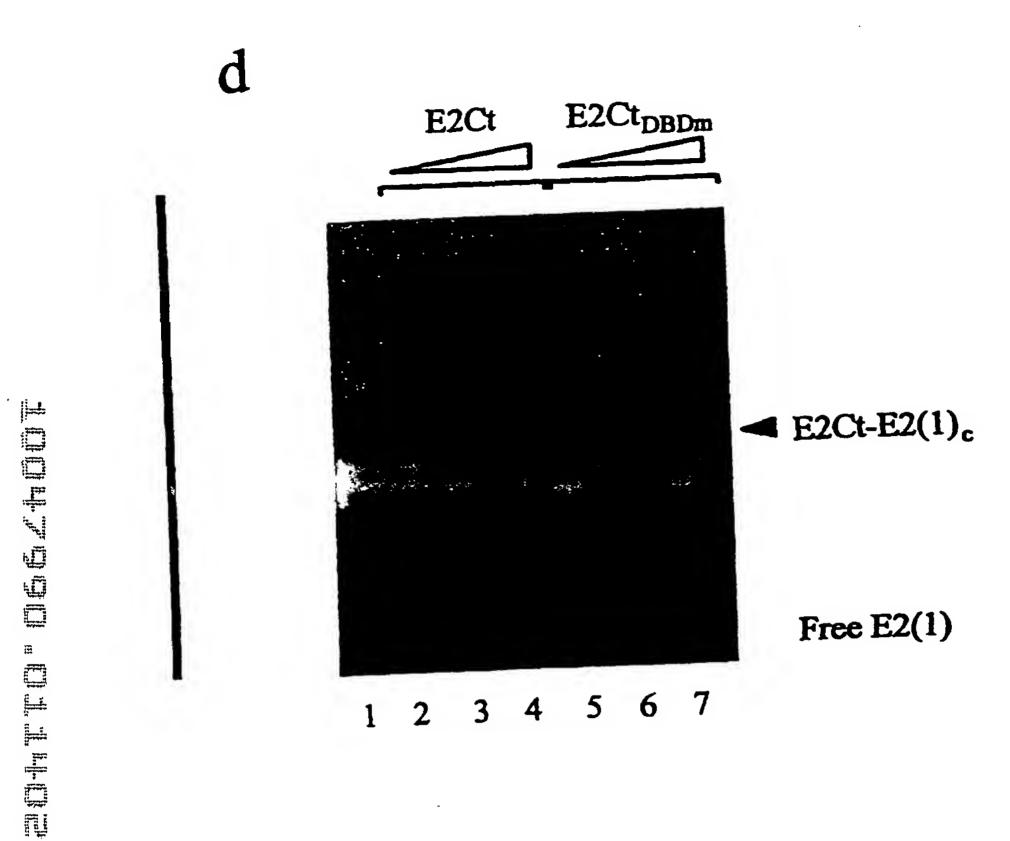


Fig. 6

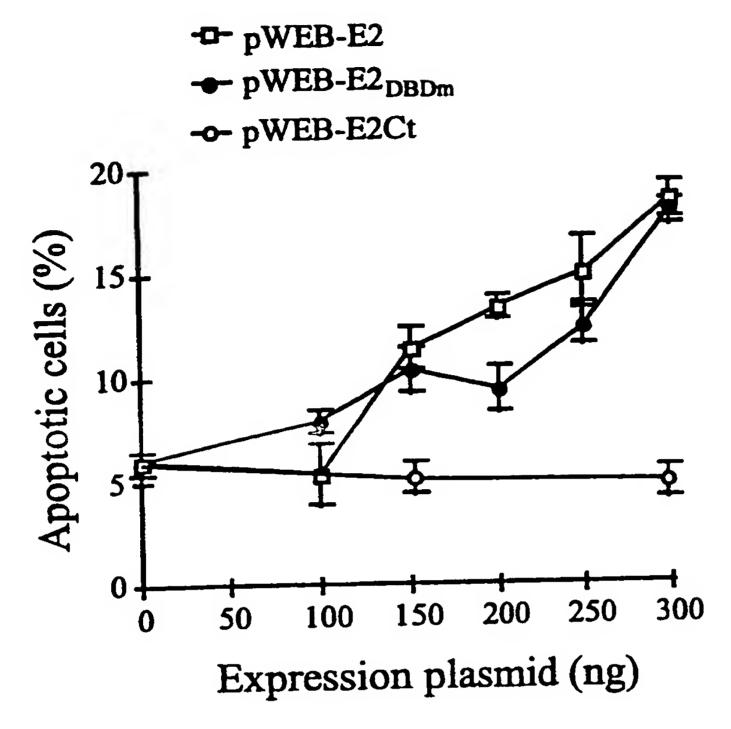


Fig. 7A

50 150 - 50 50 50 E2Ct (nM) - 150 - 50 100 150 E2Ct_{DBDm} (nM)

 \blacksquare E2Ct-E2(1)_c Free E2(1) 6



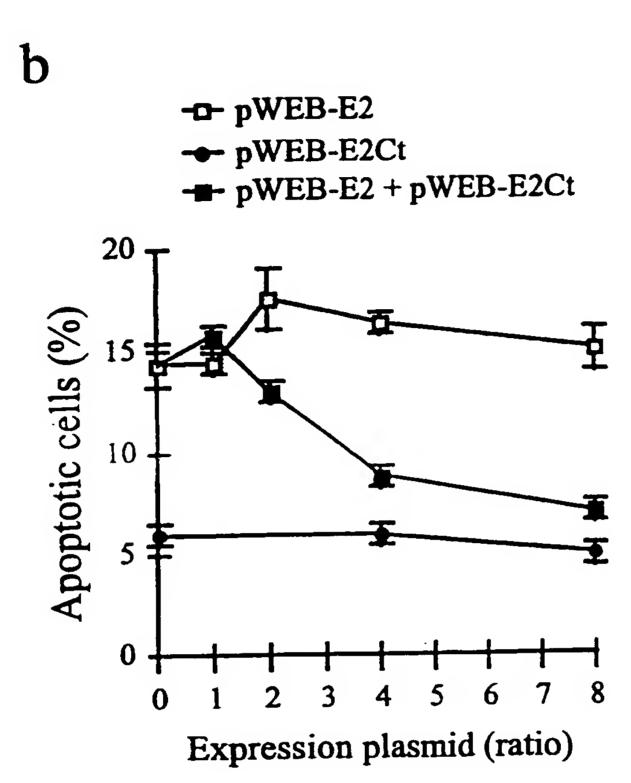


Fig. 8

The E2 proteins used in this work

		N-terminal transcription regulation domain	dimerisation and DNA binding domain
	1		
E2			279
E2Ct		•	
E2Ct _{DBDm}			x x x
E2 _{DBDm}			ххх
— DDDIII			
			N296A K299A R304A

Fig. 9

HPV 16 E2

2755	AT	rgg	AGAC	CTC	TTT(LAA1		rgto	STC	AGG!	ACAZ	AAA:	[AC:	raa(CAC	ATT	ATGAA +
	M	E	T	L	С	Q	R	L	N	V	С	Q	D	K	I	L	T	Н	Y	E
2815	AF	TGA				ACCI			ACC					_			rgc	GCC	rag	AATGT
2013	N	D	S	T	D	L	R		H								R	L	E	С
			GC	TAI	TT	att <i>i</i>	CAA	AGG	CCAC	SAGA	laa!	'GGG	ATI	TAA	ACA	\TAT	a i	ACC!	ACC	AAGTG(
2875	A	I							М								Q	v	V	P
0025	AC	ACT	'GGC	TGI	'ATC	CAAA	\GA.	\TAI	LAG C	CATI	'ACA	AGC	:AAI	TGA	ACI	GCA	ACI	CAA1	CGT	TAGAA
2935	T	L	A	V	S	K	N	ĸ	A	L	Q	A	I	E	L	Q	L	Т	L	E
2005	AC	CAAT	ATA	TAA	CTC	CACA	ATA	TAC	TAA	TGA	AAA	GTG	GAC	ATI	'ACA	AGA	CGI	TAC	CC1	TGAA
2995	T	I	Y	N	S	Q	Y	s	N	E	K	W	T	L	Q	D	V	s	L	E
3055		GTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATATACAGTGGAAGTGCAG																		
3033	V																		V	Q
2115		TTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGACACATATATAT																		
3115	F	D	_						M											С
		SAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTATGGTTTATATTATGTT																		
3175	E	E							E											v
														•						TAAA
3235	 н	E	G						v									Y		K
				•																
3295	AA	TAA	AGT	ATG	GGA	AGT	TCA	TGC	GGG	TGG	TCA	GGT	AAT	ATT	ATG'	TCC'	TAC	ATC	TGT	GTTT
,233	N	ĸ	v	W	E	v	Н	A	G	G	Q	V	Ī	L	С	P	T	S	v	F
1255	AG	CAG	CAA	CGA	AGT.	ATC	CTC	TCC	TGA.	AAT'	TAT'	TAG	GCA	GCA	CTT(GGC	CAA	CCA	CCC	CGCC
1355	S	s	N	E	V	-+ <i>-</i> · S	S	P	E	I	I	R	Q	Н	L	-+- A	N	Н	P	A
											~ · ·					 -		-		

GCGACCCATACCAAAGCCGTCGCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGA

	A	T	Н	T	K	A	v	A	L	G	T	E	E	T	Q	T	T	I	Q	R
_	CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGAC																			
3475	P		+ S								С		T	T			L	Н	R	D
	TCAGTGGACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAAC															TAAC				
3535		v	D	S	A	P			_			N					G	R	I	N
25.25		TGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT															ATGT			
3595		N	+ - -		-		P	I	v	H		K			A		T	L	K	С
		TTAAGATATAGATTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCA															GCAT			
3655		R	Y	R	F	K		Н		T	L		T		V		S	T	w	Н
	ТG	TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA															TGAA			
3715	W	T	G	Н	N	V	K	Н	ĸ	s	A	I	v	T	L	T	Y	D	S	E
2775	TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT															TACT				
3115		Q	R	D	Q							, I				I		V	S	T :
2025		ATT						Q 5 2												
3835		F	•			*														

Fig 10

HPV 16 E2DBDm

0755		ATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAA																		
2755	M	E								v										E
2815																				
2020	N																			
			GC	TAT	TTA	TT	CA	AGGC	CCA	GAGA	\AA1	rgge	ATI	TAA	ACA	TAT	TAA	CCA	CCA	AGTG
2875	A	I	Y	Υ	K	-+- A	R	E	М	G	F	K	+ H	I	N	+- Н	Q	v	v+	P
2025																				AGAA
2935	T		-							 L										E
2995		ACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTACAAGACGTTAGCCTTGAA T I Y N S Q Y S N E K W T L Q D V S L E																		
	T	I	Y	N	S	Q	Y	S	N	E	K	W	T	L	Q	D	V	S	L	E
3055		GTA	TTT +	'AAC	TGC	-+-							+			-+-			+	GCAG
	V	Y	L	T	A	P	T	G	С	Ι	K	K	Н	G	Y	T	V	E	V	Q
3115			+			-+-			4				+			-+-			+	rtgt
	F	D	G	D	I	С	N	T	М	H	Y	Т	N	W	T	Н	Ι	Y	1	С
3175	GA	GAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTATGGTTTATATTATGTT																		
	E	E	A	S	V	T	V	V	E	G	Q	V	D	Y	Y	G	L	Y	Y	V
3235	CA	TGA					ATA			GCA	GTT	TAA	•	TGA		AGA	AAA	ATA'	rag:	AAA
J2JJ	H	E	G	I	R	T	Y	F	v	Q	F	K	D	D	A	E	K	Y	S	K
3295	AA	TAA	AGT.	ATG	GGA	agt -+-	TCA	TGC	GGG	TGG	TCA	GGT	AAT	TTA	ATG	TCC	TAC	ATC:	rgt(STTT
	N	K	V	W .	E	V	H	A	G	G	Q	V	I	L	С	P	T	S	V	F
3355	AG	CAG	CAA	CGA	AGT	ATC	CTC	TCC 	TGA	AAT	TAT	TAG	GCA(GCA(CTT	GGC	CAAC	CCAC	ccc	CGCC
	S	S	N	E	V	S	S	P	E	I	I	R	Q	Н	L	A	N	Н	P	A
3415	GC	GAC	CCA	TAC	CAA	AGC	CGT	CGC	CTT	GGG	CAC	CGA	AGA/	AAC	ACA	GAC	GACT	TAT	CAG	CGA
2417	A	T	Н	T	K	A	V	A	L	G	T	Ε	E	T	Q	T	T	I	Q	R

S

3475	CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGAC																			
	P	R	S		P	Đ	T		•		С				K	L	L	H	R	D
2525	TCAGTGGACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAAC															TAAC				
3535	s	v	•	s		P			_		F		•		Н		G	R	I	N
3595	TGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTgctACTTTAgcaTGT															aTGT				
	С	N	•	N	T	T	P	I	v		L				A	A	T	L	A	С
2655		TTAAGATATgcaTTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCA															GCAT			
3655		R									L				V		S	T	W	Н
2715	-	TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA															TGAA			
3715	W	T	G	Н	N	v	K	H		S		I			L	1	Y	D	s	E
	TG	GCA	ACG'	rga(CCA	ATT'	TTT	GTC	TCA	agt	TAA	AAT	ACC	AAA	AAC	TAT'	TAC	AGT	GTC	TACT
3775	W	Q	R	D	Q	F	L	s	Q	v	K	I	P	K	T	Ţ	T	V	S	T
3835	GG	ATT!	TAT(STC?	TAT	ATG	_	852												

Fig 11

E2Ct

ATGAACTGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT

M N C N S N T T P I V H L K G D A N T L K C

TTAAGATATAGATTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCAT

L R Y R F K K H C T L Y T A V S S T W H

TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT

GGATTTATGTCTATATGA
----+-- 3852
G F M S I * -

Fig 12
E2CtDBDm

ATGAACTGTAATAGTAACACTACACCCATAGTACATTTAAAAGGTGATGCTgctACTTTAgcaTGT

M N C N S N T T P I V H L K G D A A T L A C

TTAAGATATgcaTTTAAAAAGCATTGTACATTGTATACTGCAGTGTCGTCTACATGGCAT

L R Y A F K K H C T L Y T A V S S T W H

TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA

W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTTTGTCTCCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT

W Q R D Q F L S Q V K I P K T I T V S T

GGATTTATGTCTATATGA
----+-- 3852
G F M S I * -

Fig 13

